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## Development of Tread Pattern Design System Based on SolidWorks

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**Abstract:** A tread pattern design system based on the secondary development on the SolidWorks platform was established which would reduce a large number of repetitive operations in the normal design process. The system was introduced in details by taking an example of tread pattern design for arc-shaped tire shoulder of a passenger car tire. It was designed to achieve automatic calculation of tire profile, building of 3D model and parametric design by inputting parameters in the dialog box and selecting parameters from the database. Two methods of tread pattern design were presented: one was the interactive interface design of pattern pitch and consequently automatic assembly, and the other was parametric design of the tread pattern groove. The results showed that based on this system, tread pattern design was more convenient and intelligent.

**Keyword:** tread pattern; SolidWorks; Visual C++6.0; secondary development

### Omni联合公司新推出一款拖车子午线轮胎

中图分类号:TQ336.1 文献标志码:D

美国《现代轮胎经销商》(www.moderntiredealer.com)2016年6月16日报道:

Omni联合公司为多用途拖车新推出一款子午线轮胎。新Radar Angler RST 22轮胎(见图1)是专为重载旅行拖车、船用拖车和折叠宿营拖车设

计的。

Omni称,Radar Angler RST 22轮胎的负荷能力较大,单胎负荷范围为617~1 796 kg(1 360~3 960 lb),负荷指数为91~128。

轮辋直径为330~406 mm(13~16英寸)的7个关键规格已上市:ST175/80R13,ST205/75R14,ST215/75R14,ST205/75R15,ST225/75R15,ST235/80R16和ST235/85R16。

Radar Angler RST 22轮胎有如下特点:开放的胎面肩部花纹提高牵引力;坚固的胎体采用高密度、大直径聚酯帘线提高强度和耐久性,高强度钢丝束层满足高负荷需求,提供稳定的接地印痕。

公司称,降低行驶轮胎胎面温度的新胶料和花纹设计延长了轮胎使用寿命。Radar Angler RST 22轮胎胎侧较低而刚性很大,可减小胎侧屈挠,使拖车直线行驶性更好,降低摆动风险。

(吴秀兰摘译 赵敏校)



图1 Radar Angler RST 22轮胎